FIGURE 1 - Pervasive Commerce System

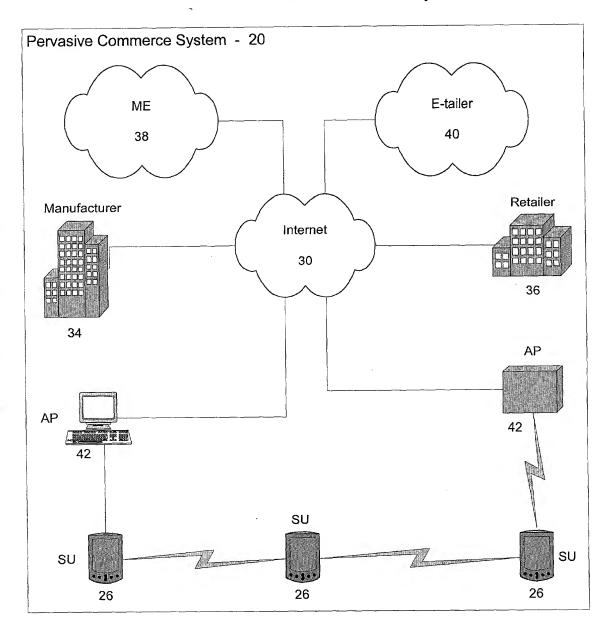


FIGURE 2 - Generic Case Structure

Item Data Block ("I" Block)	***
Case Information	ID, version, etc., for the entire case.
Link Information	Relationship to other cases.
Item Information	ID, name, description, etc., for the item.
ME Public Key	Case key or ME key version, used for encryption and whose private key peer is used in "I" and "O" Block signatures.
Distributor Public Key	Assigned to or received from Distributor; private key is used in "D" Block signature.
Block Signature	ME signature of "I" Block

Object Block ("O" Block)	
Object Information	ID, type, description, encoding, size, etc., for the contained digital object.
	for the contained digital object.
Object	Image, music, digital asset, etc.
Block Signature	ME signature of "O" Block (via private key peer to ME Public Key).

Distributor Data Block ("D"Block)	
Distributor Information	ID, name, information, etc., for Distributor.
Item Information	Encrypted wholesale price, etc., of item.
Item Options	Selectable features and options of item.
Mutation Rules	Controlling application behavior for case
	mutation (e.g., expiration date).
Passer Public Key	Assigned to or received from Passer, whose
	private peer is used in "P" Block signature.
Block Signature	Distributor signature of "D" Block (via
	private key peer to Distributor Public Key).

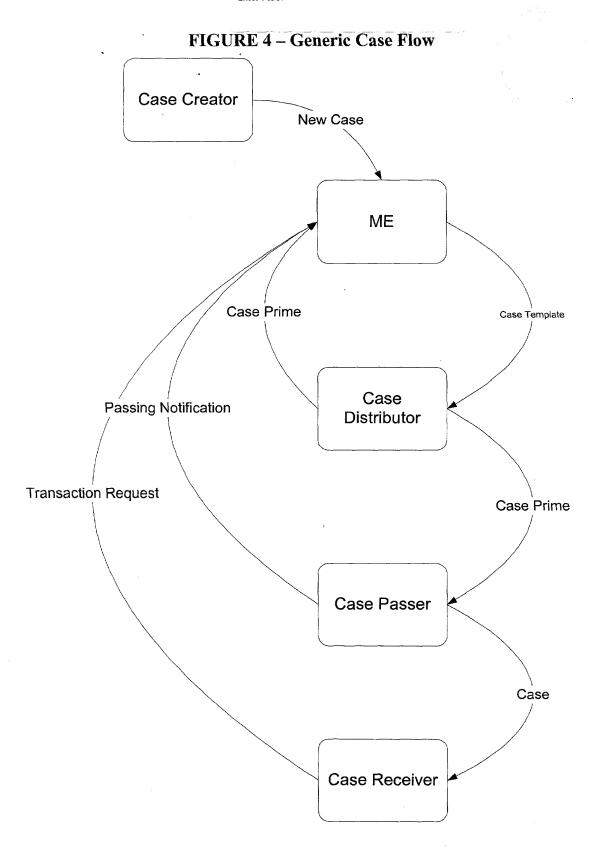
Passer Data Block ("P" Block)	
Passer Information	ID, name, etc., of Passer.
Item Information	Sales price, comments, etc., about item.
Receiver Public Key	Assigned to or received from Receiver.
Block Signature	Passer signature of "P" Block (via private
	key peer to Passer Public Key).

Receiver Data Block ("R" Block)	
Receiver Information	ID, name, etc., of Receiver.
Block Signature	Receiver signature of "R" Block (optional).

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FIGURE 3 - Pervasive Commerce Case Layout

roduct Data		
Product Data (product name & description, manufacturer name	e, address, phone, URL, MSRP, etc)
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
Distributor Data Distributor Info	o (name, address, phone, URL, promotion, start	date, stop date, etc)
Encrypted [Distributor Price]	Product selectable features	Sales Associate Public Key
Distributor Comments	Mutations	Distributor Data Signature
Sales Associate	Sales Associate Comments	Consumer Public Key
Sales Associate Retail Price	Sales Associate Comments Sales Associate ID	Consumer Public Key Sales Associate Data Signature
Retail Price	Sales Associate ID	Sales Associate Data Signature
Retail Price Consumer	Sales Associate ID Consumer Comments	Sales Associate Data Signature Consumer Password (encrypted)



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FIGURE 5 - New Case Template Layout

Item Data			
	Product Data (product name & description, manufacturer name, address, phone, URL, MSRP, etc)		
ME Public Key	Version	Case Version (Template)	Distributor Public Key
Case ID		Case SubID	Product Data Signature (ME)

FIGURE 6 - Case Prime Layout

em Data Product Data (p	roduct name & description, manufacturer nam	ne, address, phone, URL, MSRP, etc)
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
Digital Object(s)	Object Data	Digital Object Signature (ME)
Distributor Data		
Distributor Data Distributor Info	(name, address, phone, URL, promotion, star	
Distributor Data Distributor Info Encrypted [Distributor Price]		
Distributor Info	(name, address, phone, URL, promotion, star	t date, stop date, etc)
Distributor Info	(name, address, phone, URL, promotion, star	t date, stop date, etc) Sales Associate Public Key

FIGURE 7 - Passed Case Layout

Item Data Product Data (p	product name & description, manufacturer nam	ne, address, phone, URL, MSRP, etc)
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
Digital Object(s)	Object Data	Digital Object Signature (ME)
Listributor into	(name, address, phone, UKL, promotion, start	(date stop date etc)
Distributor Data Distributor Info	(name, address, phone, URL, promotion, start	date stop date etc)
<u> </u>		
Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key
Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key
Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key
Encrypted [Distributor Price] Distributor Comments	Product selectable features Mutations	Sales Associate #1 Public Key Distributor Data Signature
Encrypted [Distributor Price] Distributor Comments Passer (Sales Associate) Data	Product selectable features Mutations Sales Associate Comments	Sales Associate #1 Public Key Distributor Data Signature Consumer Public Key

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FIGURE 8 - Complete Case Layout

ase	2	
Item Data Product Data (p	product name & description, manufacturer nam	ne, address, phone, URL, MSRP, etc)
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
Digital Object(s)	Object Data	Digital Object Signature (ME)
Distributor Data Distributor Info	(name, address, phone, URL, promotion, start	date, stop date, etc)
Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key
Distributor Comments	Mutations	Distributor Data Signature
Passer (Sales Associate) Data	Sales Associate Comments	Consumer Public Key
Retail Price	Sales Associate ID	Sales Associate Data Signature
	Case / George	Color, coordinate State Organization
Receiver (Consumer) Data		
	Consumer Comments	
Consumer ID	Consumer Data Signature	

FIGURE 9 - Consumer Synchronization of PDA with ME

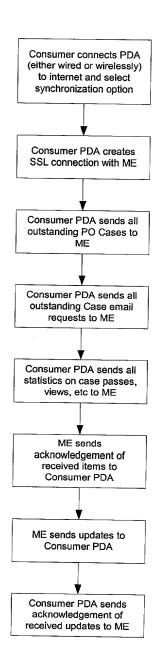
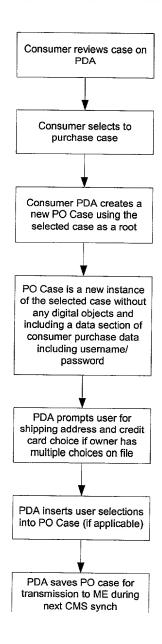


FIGURE 10 - Consumer Makes Case-Based Purchase

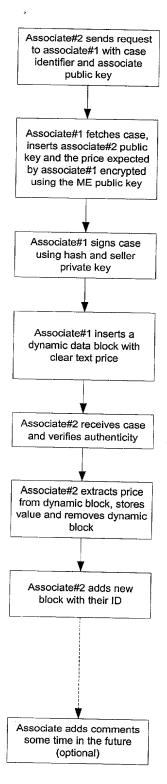


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FIGURE 11 - Purchase Request Case Layout

ase		
Product Data Product Data	(product name & description, manufacturer name,	address, phone, URL, MSRP, etc)
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubiD	Product Data Signature (ME)
Distributor Data	o (name, address, phone, URL, promotion, start da	ate, stop date, etc)
Encrypted [Distributor Price]	Product selectable features	Sales Associate Public Key
Distributor Comments	Mutations	Distributor Data Signature
Sales Associate	Sales Associate Comments	Consumer Public Key
Retail Price	Sales Associate ID	Sales Associate Data Signature
Consumer	Consumer Comments	Consumer Password (encrypted)
Consumer ID	Product Feature Selections	Consumer Data Signature
Consumer Account Name	Local Purchase Time/Date	Purchase Price
Credit Card selection	Billing Address selection	

FIGURE 12 - Sales Associate Passes Case to Sales Associate



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FIGURE 13 - Sales Associate Passes Case to Consumer

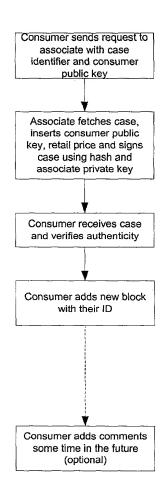


FIGURE 14 - Consumer Passes Case to Consumer

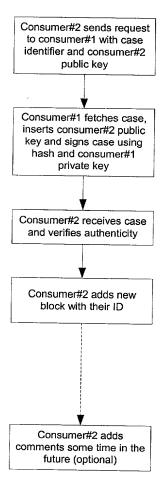


FIGURE 15 - Pervasive Commerce Case Layout

roduct Data		
Product Data (product	ct name & description, manufacturer name, ac	Idress, phone, URL, MSRP, etc)
ME Public Key Version	Case Version (Template)	Distributor Public Key
Case ID	Case SubID	Product Data Signature (ME)
igital Object(s)	Object Encoding	Object Size
Object Description	Object (image, music, digital asset)	Digital Object Signature (ME)
and stop a community of the sour		
istributor Data Distributor Info (name	e, address, phone, URL, promotion, start date	, stop date, etc)
Encrypted [Distributor Price]	Product selectable features	Sales Associate #1 Public Key
Distributor Comments	Mutations	Distributor Data Signature
ales Associate #1 Data	Sales Associate Comments	Sales Associate #2 Public Key
Encrypted [Sales Associate #1 Price]	Sales Associate #1 ID	Sales Associate #1 Data Signature
ales Associate #2 Data	Sales Associate Comments	Customer#1 Public Key
Sales Associate #2 ID	Retail Price	Sales Associate #2 DataSignature
	Retail Price	
Austomer #1 Data	Customer Comments	Oustomer #2 Public Key
Austomer #1 Data Customer #1 ID	Customer Comments Customer #1 Data Signature	Oustomer #2 Public Key
Austomer #1 Data	Customer Comments Customer #1 Data Signature	Oustomer #2 Public Key

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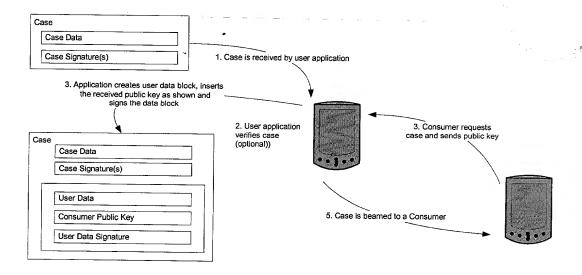


FIGURE 16 - Receiver Selected Key Exchange

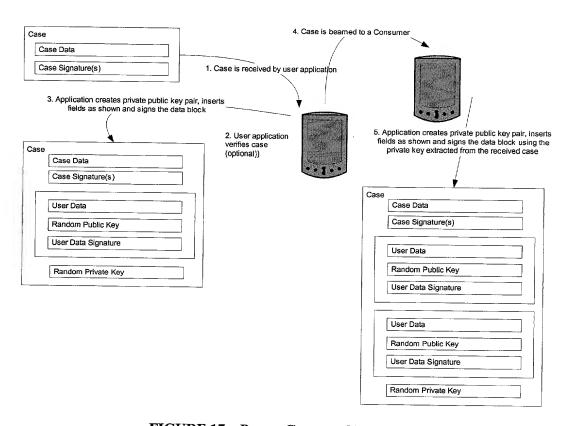


FIGURE 17 - Passer Generated Key Exchange

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igital Object	
Object Description (text name and description of the contained digital object)	
Object Type (image, video, music clip, music song, music album)	
Object Encoding (jpeg, tiff, mpeg, mp3, midi, XrML, zip, pdf)	
Object Size (total size of object in bytes)	
Object (actual object data)	
Digital Object Signature (ME)	

FIGURE 18 - DIGITAL OBJECT

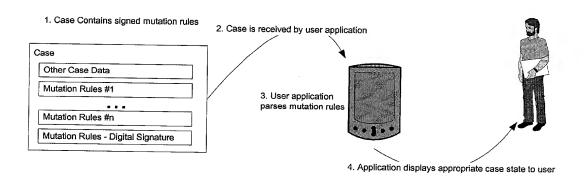


FIGURE 19 - Trusted Case Mutation

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1. Case Contains fields defined as 'mutatable' Case Other Case Data Mutatable Field #1 Mutatable Field #n 6. Application displays case with updated fields 3. Application displays case to user 4. User updates mutatable fields

FIGURE 20 - Untrusted Case Mutation